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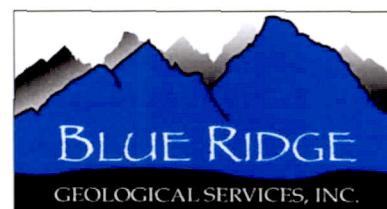
REPORT OF GROUNDWATER SAMPLING AND ANALYSIS – 3rd QUARTER 2012

**FIBER DYNAMICS, INC.
200 SOUTH WEST POINT AVENUE
HIGH POINT, GUILFORD COUNTY, NORTH CAROLINA
SITE ID# NON CD0002854**

Prepared for:

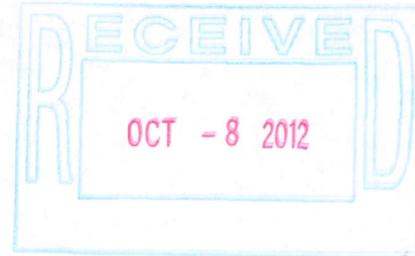
**Fiber Dynamics, Inc.
200 South West Point Avenue
High Point, North Carolina 27261**

Prepared by:



**Blue Ridge Geological Services, Inc.
Archdale, North Carolina**

September 2012



September 28, 2012

Ms. Sharon Cihak
 Guilford County Department of Public Health
 Environmental Health Division
 1203 Maple Street, 3rd Floor
 Greensboro, North Carolina 27405

Subject: Report of Groundwater Sampling and Analysis – 3rd Quarter 2012
 Fiber Dynamics, Inc.
 200 South West Point Avenue
 High Point, Guilford County, North Carolina
 Site ID #NON CD 0002854

Dear Ms. Cihak:

On behalf of Fiber Dynamics, Inc., *Blue Ridge Geological Services, Inc. (Blue Ridge)* performed additional environmental activities at the subject site in August 2012 (Figures 1 and 2). Outlined below is a summary of the field activities, laboratory results, and our conclusions and recommendations.

Field Activities

On August 23, 2012, Blue Ridge personnel measured the depth to groundwater in site monitoring wells using an electronic water level meter. On this date, the depth to water in the wells ranged from 1.4 (MW-1) to 5.60 (MW-2) feet below the top of the PVC well casing. A summary of the measurements is presented in Table 1. The groundwater elevations at each well were determined by subtracting the depth to water from the elevation of the top of the PVC casing in each well. The groundwater elevations for each well were plotted on a map and elevations were interpolated between wells by comparing the groundwater elevations at those locations considering the local and regional topography. A groundwater contour or potentiometric surface map of the surficial aquifer on August 23, 2012 is presented on Figure 3. As shown on the figure, the generalized direction of groundwater flow at the site is to the east.

On August 23, 2012, Blue Ridge personnel collected groundwater samples from all seven (7) site monitoring wells. The wells were sampled using a low-flow pump and disposable polyethylene tubing lowered to near the bottom of each well. The wells were sampled from least impacted to most impacted and field equipment was decontaminated between wells to minimize the possibility of cross contamination.

Prior to sampling, field personnel recorded select water quality parameters (pH, temperature, and specific conductivity) in each well using a field meter. The field readings are presented in Table 3. Next, field personnel collected groundwater samples from each well, placed the samples in laboratory-prepared containers (some with preservatives), labeled the containers with project information, placed the samples into coolers containing ice, and transported the samples to Pace Analytical Services, Inc. in Huntersville, North Carolina for analysis. All groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260. The ten highest tentatively identified compounds (TICs) in the VOC analysis were also measured and reported.

In addition, the groundwater samples from select monitoring wells (MW-1, MW-3, MW-4, MW-5, DW-1) were also analyzed for natural attenuation or biodegradation parameters, i.e., alkalinity, chloride, ethane, ethane, ferrous iron (Fe^{2+}), manganese, methane, nitrate, sulfate, sulfide, and total organic carbon (TOC). Wells selected for analysis of natural attenuation parameters included an upgradient well (MW-1), a downgradient well (MW-3), and two wells in the center of the plume (MW-4 and MW-5).

A quality assurance sample (blind duplicate) was collected in general accordance with QA/QC procedures. The duplicate (from well MW-5) was analyzed for VOCs by Method 8260. A chain-of-custody form was maintained with the samples. As a result of low flow sampling, minimal purge water was generated during the field activities. The contaminated groundwater was placed into a 55-gallon steel drum for future off-site disposal.

Laboratory Results

No VOCs were detected in the groundwater in monitoring wells MW-1 and MW-2. Several VOCs were detected in the groundwater in monitoring wells MW-3, MW-4, MW-5, MW-6, and DW-1 including the following: acetone (DW-1), chlorobenzene (MW-3, MW-5, and DW-1), 1,2-dichlorobenzene (MW-3, MW-5, and DW-1), 1,1-dichloroethane (MW-6), 1,2-dichloroethane (MW-6), 1,1-dichloroethene (MW-3, DW-1), cis-1,2-dichloroethene or cis-1,2-DCE (MW-3, MW-4, MW-5, MW-6, DW-1), 4-methyl-2-

pentanone or MIBK (DW-1), tetrachloroethene or PCE (MW-3, MW-5, MW-6, and DW-1), trichloroethene or TCE (MW-3, MW-4, MW-5, MW-6, and DW-1), trichlorofluoromethane (MW-3, MW-6, DW-1), and vinyl chloride (MW-4). The VOCs were detected in the groundwater at concentrations ranging from 7.06 (MW-4) to 193.15 (DW-1) micrograms per liter (ug/L) or parts per billion. One or more VOC TICs were detected in the groundwater in monitoring wells MW-3, MW-5 DUP, MW-6, and DW-1.

Alkalinity was measured in the groundwater in all wells sampled at concentrations ranging from 32.2 to 203 milligrams per liter (mg/L). Chloride was detected in the groundwater in all wells sampled at concentrations ranging from 10.4 to 130 mg/L. Manganese was detected in the groundwater in all wells sampled at concentrations ranging from 0.245 to 0.874 mg/L. No ferrous iron was detected in the groundwater in the wells sampled.

Methane was detected in the groundwater in all wells sampled at concentrations ranging from 0.007 to 0.545 mg/L. No ethane or ethene was detected in the groundwater in monitoring wells MW-1, MW-3, and MW-5. No ethane was detected in the groundwater in well MW-4, however, ethene was detected in well MW-4 at a concentration of 0.0026 mg/L.

Nitrogen (nitrate) was detected in the groundwater in wells MW-1, MW-3, and MW-5 at concentrations ranging from 0.74 to 2.1 mg/L. Sulfate was detected in the groundwater in all wells sampled at concentrations ranging from 35.1 to 67.6 mg/L. Sulfide was detected in the groundwater in well MW-4 at a concentration of 0.85 mg/L. TOC was detected in the groundwater in all wells sampled at concentrations ranging from 2.8 to 32 mg/L.

The groundwater analytical results for this sampling event (as well as other sampling events) are summarized in Table 2 (VOCs) and Table 3 (biodegradation parameters). The laboratory report and chain-of-custody record are attached. Isoconcentration maps of PCE, TCE, and total VOCs in the surficial aquifer in August 2012 are presented on Figures 4A through 4C.

Conclusions and Recommendations

The depth to groundwater ranged from approximately one to six feet below ground surface in the monitoring wells in August 2012. These water levels are similar to previous measurements at the site. The generalized direction of groundwater flow at the site in August 2012 is to the east which is similar to

previous sampling events.

No VOCs were detected in the groundwater in monitoring wells MW-1 and MW-2 in August 2012. The total VOCs detected in the groundwater in monitoring wells MW-3 through MW-6 and DW-1 ranged from 7.06 ug/L (MW-4) to 193.15 ug/L (DW-1). Acetone was detected in the groundwater in well DW-1; acetone is a common laboratory artifact and is not likely a result of groundwater contamination. Only three VOCs (PCE, TCE, and/or vinyl chloride) were detected in the groundwater in one or more of the monitoring wells at concentrations above the NCDENR 2L Groundwater Standards (2L Standards). PCE was detected in wells MW-3, MW-5, MW-6, and DW-1 at concentrations ranging from 17.9 to 148 ug/L which is above the 2L Standard of 0.7 ug/L. TCE was detected in wells MW-3, MW-5, and DW-1 at concentrations ranging from 3.3 to 7.2 ug/L which is above the 2L Standard of 3 ug/L. Vinyl chloride (a degradation product of PCE/TCE) was detected in well (MW-4) at a concentration of 4 ug/L which is above the 2L Standard of 0.03 ug/L.

In general, the VOC concentrations detected in the groundwater in the monitoring wells in August 2012 were fairly similar to previous sampling events (see Table 2 and attached graph of PCE concentrations over time in select wells). As shown on Figures 4A through 4C, the horizontal extent of VOCs detected in the groundwater is reasonably defined and the majority of the plume is located on-site. The plume shape/size was similar to previous sampling events; it does not appear that the plume is migrating.

Table 3 summarizes the water quality parameters measured at the site. These values were compared to values in the literature that have been proven to indicate aquifer characteristics conducive to natural attenuation or biodegradation of chlorinated solvents such as PCE. As shown in the table, the levels of pH, temperature, alkalinity, chloride, ethene, manganese, methane, nitrate, sulfide, and TOC in one or more of the monitoring wells indicate that the site is conducive for natural attenuation. In addition, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, TCE, and/or vinyl chloride were detected in the groundwater in several of the monitoring wells during this and earlier sampling events; these constituents are degradation products of PCE and their presence in the center and centerline downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation is occurring to some extent in the groundwater at the site.

We recommend continued groundwater sampling of site monitoring wells to monitor the VOC concentrations and plume degradation and/or migration. Please contact the undersigned if you have any questions regarding this report or the project.

Sincerely,



Jeffrey L. Gerlock, L.G.
NC Licensed Geologist #1141
Registered Environmental Consultant #149



Attachments –Tables, Figures, Laboratory Report

cc: Mr. Jim Heery, Fiber Dynamics

TABLES

TABLE 1

MONITORING WELL CONSTRUCTION INFORMATION AND GROUNDWATER ELEVATION DATA

FIBER DYNAMICS, INC.
 200 SOUTH WEST POINT AVENUE
 HIGH POINT, NORTH CAROLINA
 SITE ID# NONCD 0002854

Well No.	Date Installed	Ground Elevation (ft, bgs)	Screened Interval (ft, bgs)	Total Well Depth (ft, bgs)	Date Water Level Measured	TOC Elevation (ft, btoc)	Depth to Water (ft, btoc)	Groundwater Elevation (ft, btoc)
MW-1	11/4/2009	893.12	11 to 16	16.0	11/9/2009	892.74	1.58	891.16
					11/17/2009		1.18	891.56
					11/24/2009		1.12	891.62
					10/31/2011		1.51	891.23
					1/31/2012		0.95	891.79
					6/6/2012		1.30	891.44
					8/23/2012		1.40	891.34
MW-2	11/4/2009	888.71	14 to 19	19.0	11/4/2009	888.42	6.17	882.25
					11/9/2009		6.17	882.25
					11/17/2009		5.73	882.69
					11/24/2009		5.49	882.93
					10/31/2011		6.18	882.24
					1/31/2012		5.39	883.03
					6/6/2012		5.53	882.89
MW-3	11/4/2009	887.13	16 to 21	21.0	11/4/2009	886.51	4.29	882.22
					11/9/2009		4.28	882.23
					11/17/2009		3.87	882.64
					11/24/2009		3.64	882.87
					10/31/2011		4.29	882.22
					1/31/2012		3.62	882.89
					6/6/2012		4.80	881.71
MW-4	11/5/2009	888.43	9 to 14	14.0	11/9/2009	888.15	4.60	883.55
					11/17/2009		4.27	883.88
					11/24/2009		4.05	884.10
					10/31/2011		4.50	883.65
					1/31/2012		2.49	885.66
					6/6/2012		4.00	884.15
					8/23/2012		3.91	884.24
MW-5	11/5/2009	890.38	9 to 14	14.0	11/9/2009	890.01	8.96	881.05
					11/17/2009		6.15	883.86
					11/24/2009		2.25	887.76
					10/31/2011		4.21	885.80
					1/31/2012		3.64	886.37
					6/6/2012		3.37	886.64
					8/23/2012		3.61	886.40
MW-6	11/5/2009	888.90	13 to 18	18.0	11/4/2009	888.48	3.97	884.51
					11/9/2009		3.94	884.54
					11/17/2009		3.57	884.91
					11/24/2009		3.34	885.14
					10/31/2011		3.91	884.57
					1/31/2012		3.74	884.74
					6/6/2012		3.18	885.30
DW-1	2/9/2010	NM	50 to 55	55.0	2/9/2010	NS	3.60	NS
					10/31/2011		4.70	NS
					1/31/2012		3.93	NS
					6/6/2012		4.05	NS
					8/23/2012		4.03	NS

Notes:

Measurements are in feet below ground surface (bgs) or below the top of the PVC well casing (btoc).

Groundwater levels were measured using a Heron water level meter.

Elevations are feet above the 1988 North American Vertical Datum (NAVD) and are referenced from a nearby vertical control monument.

NS - Not Surveyed

TABLE 2

SUMMARY OF GROUNDWATER SAMPLING RESULTS

FIBER DYNAMICS, INC.
 200 SOUTH WEST POINT AVENUE
 HIGH POINT, NORTH CAROLINA
 SITE ID# NONCD 0002854

Well No.	Date Sampled	Volatile Organic Compounds (VOCs)																	Total VOCs	VOC TICs	
		Acetone	Benzene	2-Butanone (MEK)	Chlorobenzene	Chloroethane	1,2-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	p-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)	Tetrachloroethylene (PCE)	Toluene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl chloride		
MW-1	11/4/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	
	10/31/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	~0.62	ND	ND	
	1/31/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	
	6/6/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	
	8/23/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	
MW-2	11/4/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	<1	2.70	ND
	10/31/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.46	ND	ND	ND	ND	~0.62	ND	ND
	1/31/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND	ND
	6/6/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND	ND
	8/23/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND	ND
MW-3 DUP (MW-3)	11/4/2009	ND	ND	ND	1.3	ND	1.3	ND	ND	<1	1.3	ND	ND	ND	36.5	ND	2.3	7.5	1.7	51.90	ND
	11/4/2009	ND	ND	ND	1.3	ND	1.4	ND	ND	<1	1.2	ND	ND	ND	34.2	ND	2.5	8.4	1.9	50.90	8.94
	10/31/2011	ND	ND	ND	1.6	ND	1.1	ND	ND	<1	1.7	ND	ND	ND	52.8	ND	2.7	3.7	0.66 J	64.26	ND
	1/31/2012	ND	ND	ND	1.6	ND	1.3	ND	ND	<1	1.7	ND	ND	ND	67.5	ND	3.8	5.6	<1	81.50	ND
	6/6/2012	ND	ND	ND	1.6	ND	1.4	ND	ND	<1	1.4	ND	ND	ND	58.0	ND	3.4	1.7	<1	67.50	13.5
	8/23/2012	ND	ND	ND	1.7	ND	1.3	ND	ND	0.59 J	1.6	ND	ND	ND	58.9	ND	3.3	2.7	<1	70.09	16.9
MW-4 DUP (MW-4)	11/6/2009	62.5	<1	8.9	<1	<1	<1	ND	ND	1.6	<1	2.8	ND	11.5	<1	4.2	ND	3.7	95.20	5.56	
	10/31/2011	ND	0.49 J	ND	0.75 J	1.9	0.65 J	ND	ND	10.4	0.87 J	<1	ND	<1	0.30 J	2.5	ND	6.8	24.66	5.28	
	10/31/2011	ND	0.51 J	ND	0.73 J	2.0	0.55 J	ND	ND	8.3	0.94 J	<1	ND	<0.46	0.26 J	1.5	ND	7.7	22.49	ND	
	1/31/2012	167	<1	ND	<1	ND	<1	ND	ND	ND	<1	<1	ND	<1	<1	<1	ND	<1	167.00	ND	
	1/31/2012	132	<1	ND	<1	ND	<1	ND	ND	ND	<1	<1	ND	<1	<1	<1	ND	<1	132.00	ND	
	6/6/2012	ND	<1	ND	<1	ND	<1	ND	ND	ND	1.0	<1	<1	ND	<1	<1	ND	<1	1.00	8.96	
	8/23/2012	ND	<1	ND	<1	ND	<1	ND	ND	ND	2.2	<1	<1	ND	<1	<1	0.86 J	ND	4	7.06	ND
MW-5 DUP (MW-5)	11/9/2009	ND	ND	ND	1.1	ND	1.8	ND	ND	2.5	ND	ND	ND	65	ND	5.2	ND	<1	75.60	ND	
	10/31/2011	ND	ND	ND	1.0	ND	1.1	ND	ND	2.1	ND	ND	ND	76.9	ND	4.1	ND	~0.62	85.20	ND	
	1/31/2012	ND	ND	ND	<1	ND	<1	ND	ND	1.3	ND	ND	ND	57.7	ND	3.4	ND	<1	62.40	ND	
	6/6/2012	ND	ND	ND	0.56 J	ND	1.0 J	ND	ND	ND	1.7	ND	ND	ND	59.1	ND	3.6	ND	<1	65.96	ND
	6/6/2012	ND	ND	ND	0.60 J	ND	0.96 J	ND	ND	1.9	ND	ND	ND	ND	69.8	ND	4.0	ND	<1	77.26	5.74
	8/23/2012	ND	ND	ND	0.61 J	ND	1.0	ND	ND	ND	1.4	ND	ND	ND	61.5	ND	3.7	ND	<1	68.21	ND
DUP (MW-5)	8/23/2012	ND	ND	ND	0.48 J	ND	0.77 J	ND	ND	1.2	ND	ND	ND	ND	43.1	ND	3.0	ND	<1	48.55	8.50

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS

FIBER DYNAMICS, INC.
200 SOUTH WEST POINT AVENUE
HIGH POINT, NORTH CAROLINA
SITE ID# NONCD 0002854

Well No.	Date Sampled	Volatile Organic Compounds (VOCs)																		Total VOCs	VOC TICs
		Acetone	Benzene	2-Butanone (MEK)	Chlorobenzene	Chloroethane	1,2-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	p-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl chloride		
MW-6 DUP (MW-6)	11/6/2009	ND	ND	ND	<1	<1	ND	<1	<1	ND	<1	ND	ND	ND	8.8	ND	<1	<1	<1	8.80	17.71
	11/6/2009	ND	ND	ND	<1	<1	ND	<1	<1	ND	<1	ND	ND	ND	8.6	ND	<1	<1	<1	8.60	ND
	10/31/2011	ND	ND	ND	0.25 J	0.17 J	ND	0.61 J	<1	ND	0.49 J	ND	ND	ND	16.6	ND	0.78 J	0.58 J	<0.62	19.48	ND
	1/31/2012	ND	ND	ND	<1	<1	ND	<1	<1	ND	<1	ND	ND	ND	17.7	ND	<1	<1	<1	17.70	ND
	6/6/2012	ND	ND	ND	<1	<1	ND	<1	<1	ND	0.40 J	ND	ND	ND	15.7	ND	0.87 J	<1	<1	16.97	16.7
	8/23/2012	ND	ND	ND	<1	<1	ND	0.51 J	0.13 J	ND	0.47 J	ND	ND	ND	17.9	ND	0.91 J	0.66 J	<1	20.58	8.68
DW-1	2/10/2010	ND	ND	ND	<1	ND	<1	ND	ND	<1	5.1	ND	ND	ND	152	<1	8.7	ND	<1	165.80	ND
	10/31/2011	ND	ND	ND	0.46 J	ND	0.44 J	ND	ND	<1	3.1	ND	ND	21.6	85.3	0.41 J	3.7	ND	<0.62	115.01	31.4
	1/31/2012	ND	ND	ND	<1	ND	<1	ND	ND	<1	2.2	ND	ND	17.3	87.8	<1	4.8	ND	<1	112.10	54.15
	6/6/2012	77.1	ND	ND	0.54 J	ND	0.50 J	ND	ND	<1	2.2	ND	ND	27.8	78.5	0.37 J	4.3	ND	<1	191.31	8.65
	8/23/2012	25.6	ND	ND	0.94 J	ND	0.81 J	ND	ND	0.86 J	4.1	ND	ND	5.4	148	<1	7.2	0.24 J	<1	193.15	212.8
2L Standard (ug/L)		6000	1	4000	50	3000	20	6	0.4	7	70	100	25	100	0.7	600	3	2000	0.03	NE	NE

Notes:

Results are presented in micrograms per liter (ug/L)

TICs = Tentatively Identified Compounds

2L Standard = NCDENR NCAC Subchapter 2L Groundwater Classifications and Standards

J = Estimated Value (between Method Detection Limit and Reporting Limit)

ND = Not Detected

NA = Not Analyzed; N/A - Not Applicable

NE - Not Extablished

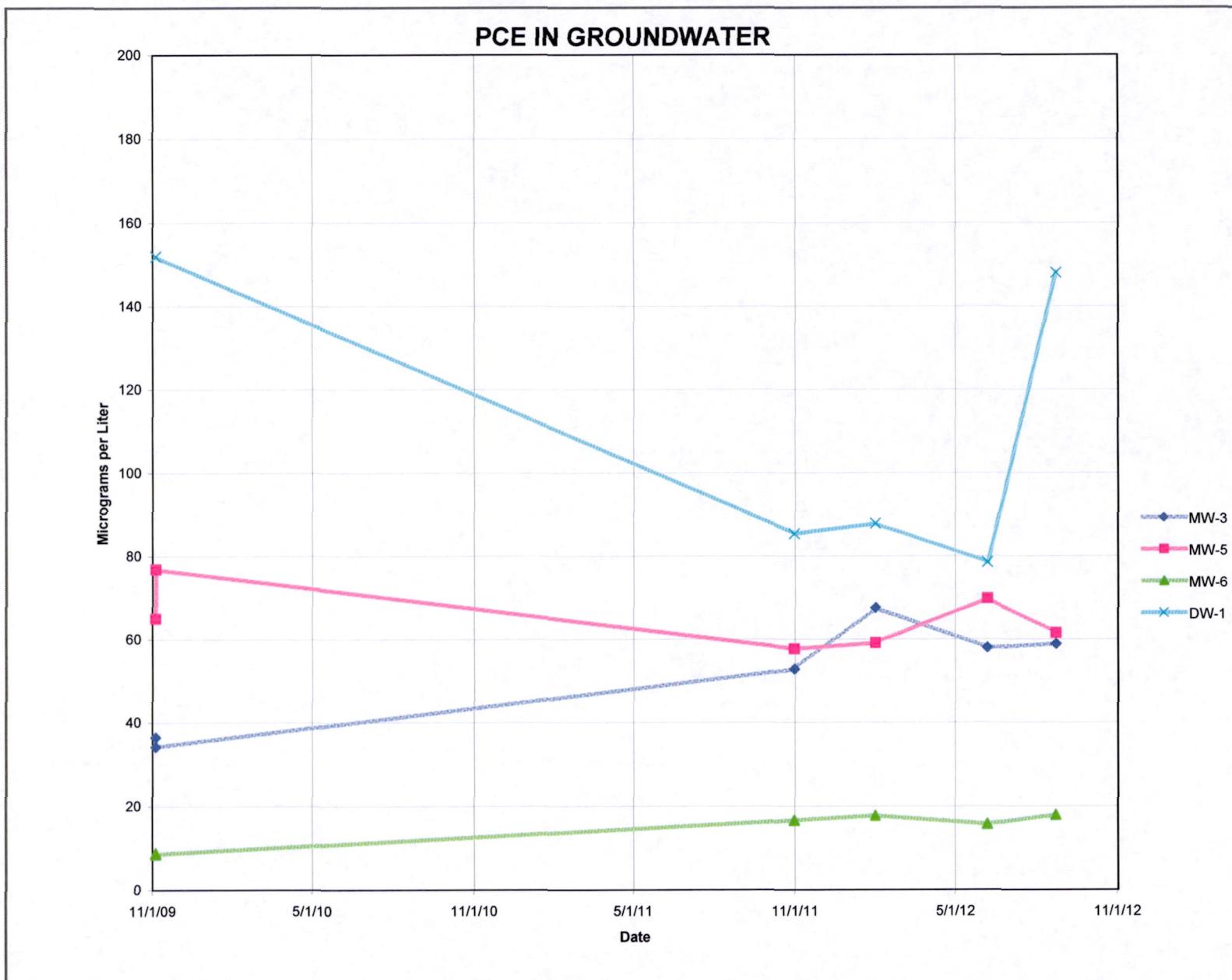


TABLE 3

SUMMARY OF GROUNDWATER SAMPLING RESULTS - BIODEGRADATION PARAMETERS

FIBER DYNAMICS, INC.
200 SOUTH WEST POINT AVENUE
HIGH POINT, NORTH CAROLINA
SITE ID# NONCD 0002854

Well	Date Sampled	Field pH (s.u.)	Field Temp (°C)	Field Conductivity (mV)	Alkalinity	Chloride	Ethane (ug/L)	Ethene (ug/L)	Iron, Ferrous	Manganese (ug/L)	Methane (ug/L)	NO ₂ + NO ₃	Nitrate	Sulfate	Sulfide	TOC
MW-1 (Background)	10/31/2011	6.62	19.9	31	35	11.2	ND	ND	ND	431	64.4	2.1	NA	66.3	ND	4.6
	8/23/2012	6.90	22.2	17	32.2	10.4	ND	ND	ND	256	7	NA	1.9	67.6	ND	2.8
MW-2	10/31/2011	6.92	17.8	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/2012	7.10	19.9	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	10/31/2011	7.13	16.1	4	155	36.8	ND	ND	ND	759	46.5	1.8	NA	47	ND	6.4
	8/23/2012	7.13	19.1	3	133	34.7	ND	ND	ND	245	45.5	NA	2.1	58.8	ND	7.2
MW-4	10/31/2011	7.06	19.8	8	NA	NA	ND	ND	NA	NA	984	NA	NA	NA	NA	12.1
	8/23/2012	6.80	25.8	21	203	130	ND	ND	2.6	752	545	NA	ND	35.1	0.85	32.0
MW-5	10/31/2011	7.13	16.8	4	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/2012	7.07	23.5	7	168	36	NA	ND	ND	874	13.5	NA	0.74	60.8	ND	7
MW-6	10/31/2011	7.08	17.1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/2012	7.08	21.2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-1	10/31/2011	7.10	16.6	5	165	26.7	ND	15.3	ND	301	3,470	0.64	NA	37	6.3	8.9
	8/23/2012	7.06	20.7	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Values Conducive to Natural Attenuation		5 - 9	> 20	NE	> 2x background	> 2x background	>0	>0	> 1	NE	> 500	Nitrate <1	<1	< 20	> 1	> 20

Notes: Results expressed in milligrams per Liter (mg/L) unless otherwise specified (ug/L = micrograms per Liter)

Red values indicate negative readings

Background is MW-1

ND = Not Detected; NA = Not Analyzed; NE = Not Established

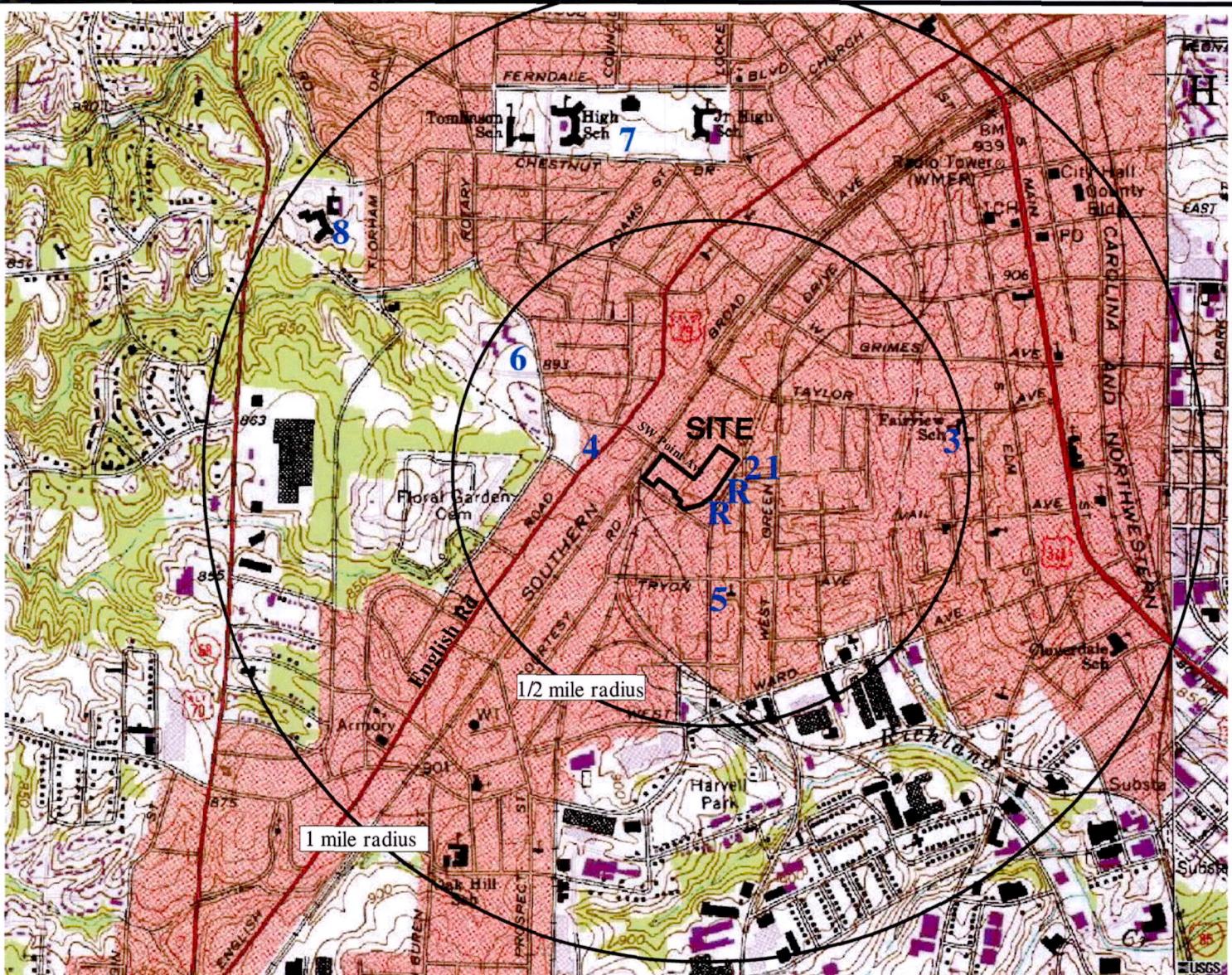
BOD Biological Oxygen demand

COD Chemical Oxygen demand

DO Dissolved Oxygen

TOC Total Organic Carbon

FIGURES



Legend

- 1 = Body of Christ Christian Church
- 2 = Calvary Church of God of Prophecy
- 3 = Southside Children's Center, Fairview Elem (Pre-K) Day Care
- 4 = High Point Family Day Care
- 5 = Agape Family Ministries
- 6 = Green Street Baptist Church
- 7 = Tomlinson School, Academy at Central, Ferndale Middle School, High Point Central High School
- 8 = Wesley Memorial Methodist Church
- R = Residences

Note: No water supply wells, springs, or surface water intakes used as sources of potable water observed or reported within 1/2 mile radius.

Scale: 1 inch = 1,700 feet

REF.: USGS High Point West NC Quadrangle Map dated 1969
photorevised 1987 from Microsoft TerraServer



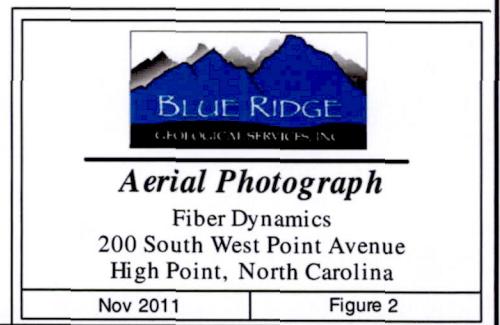


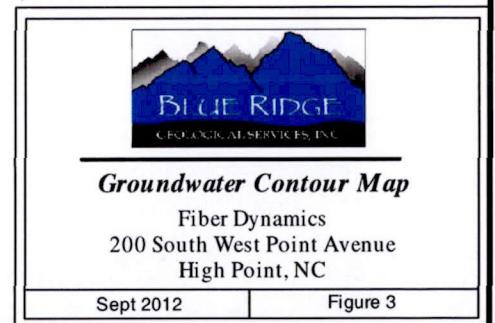
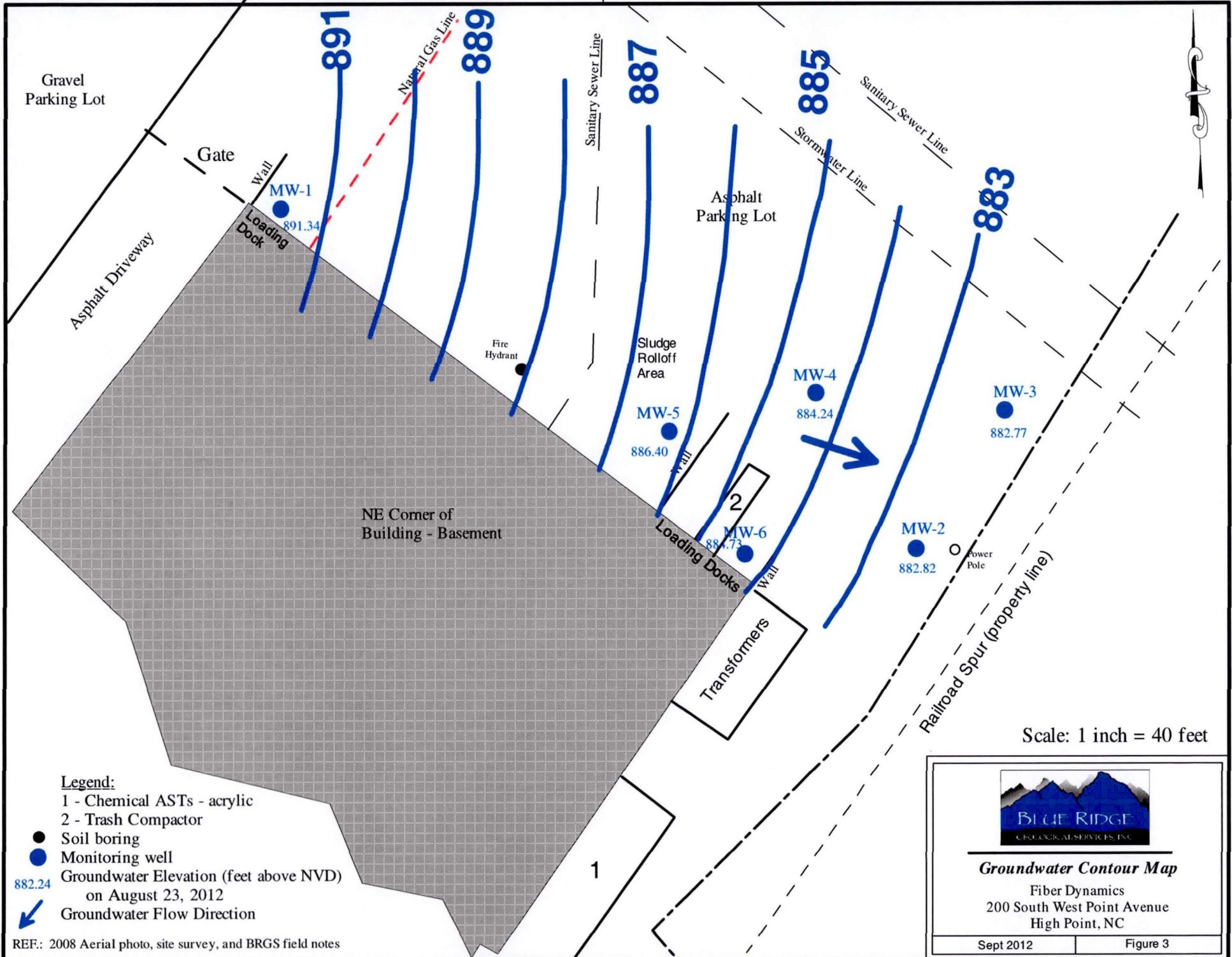
Legend

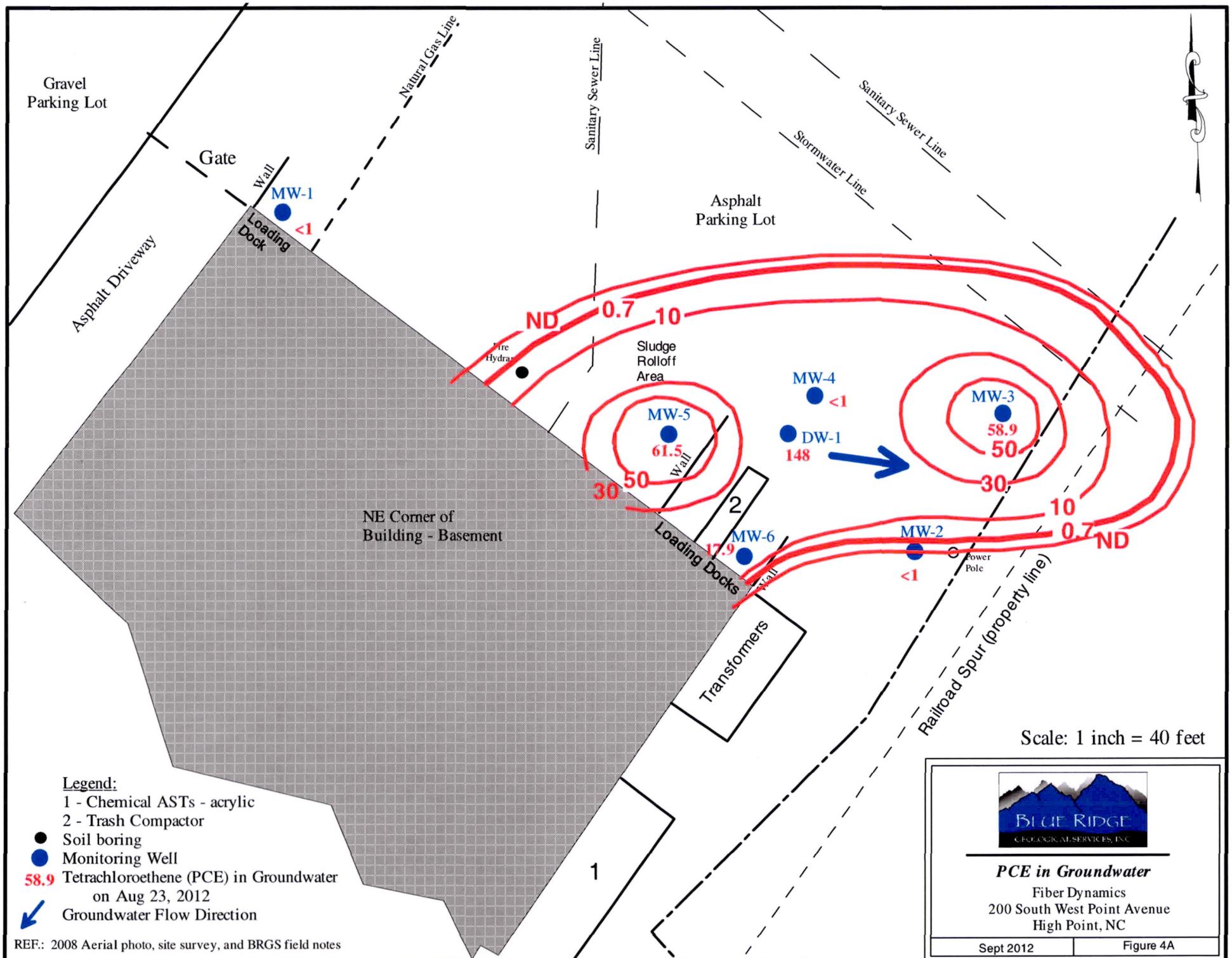
- 1 = Calvary Church of God of Prophecy
- 2 = Engineered Polymer Solutions, Inc.
- 3 = Vacant - Former Siceloff Oil and Coal
- R = Residences

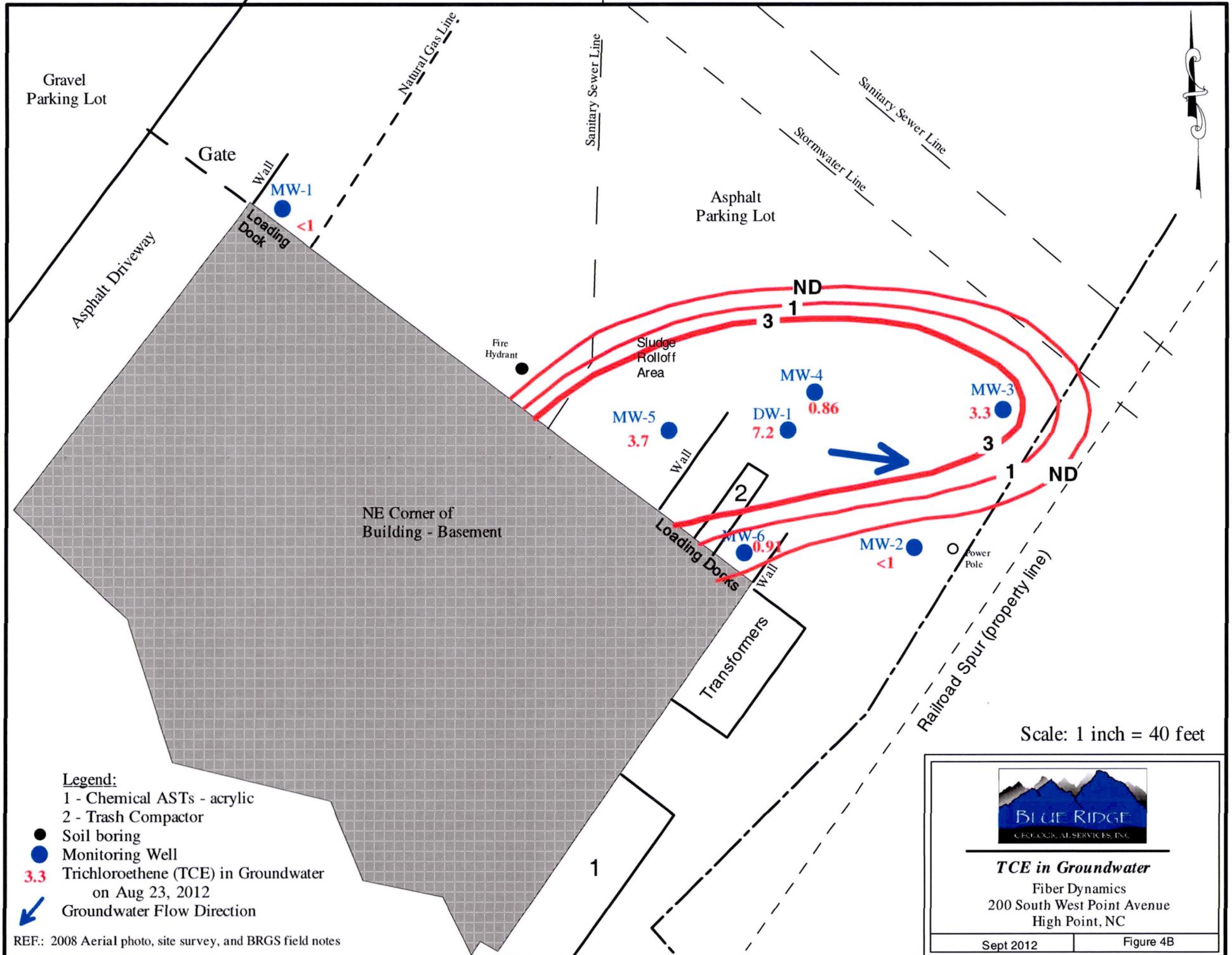
Scale: 1 inch = 170 feet

REF.: Guilford County NC GIS Website





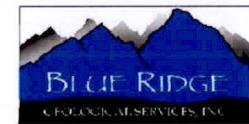
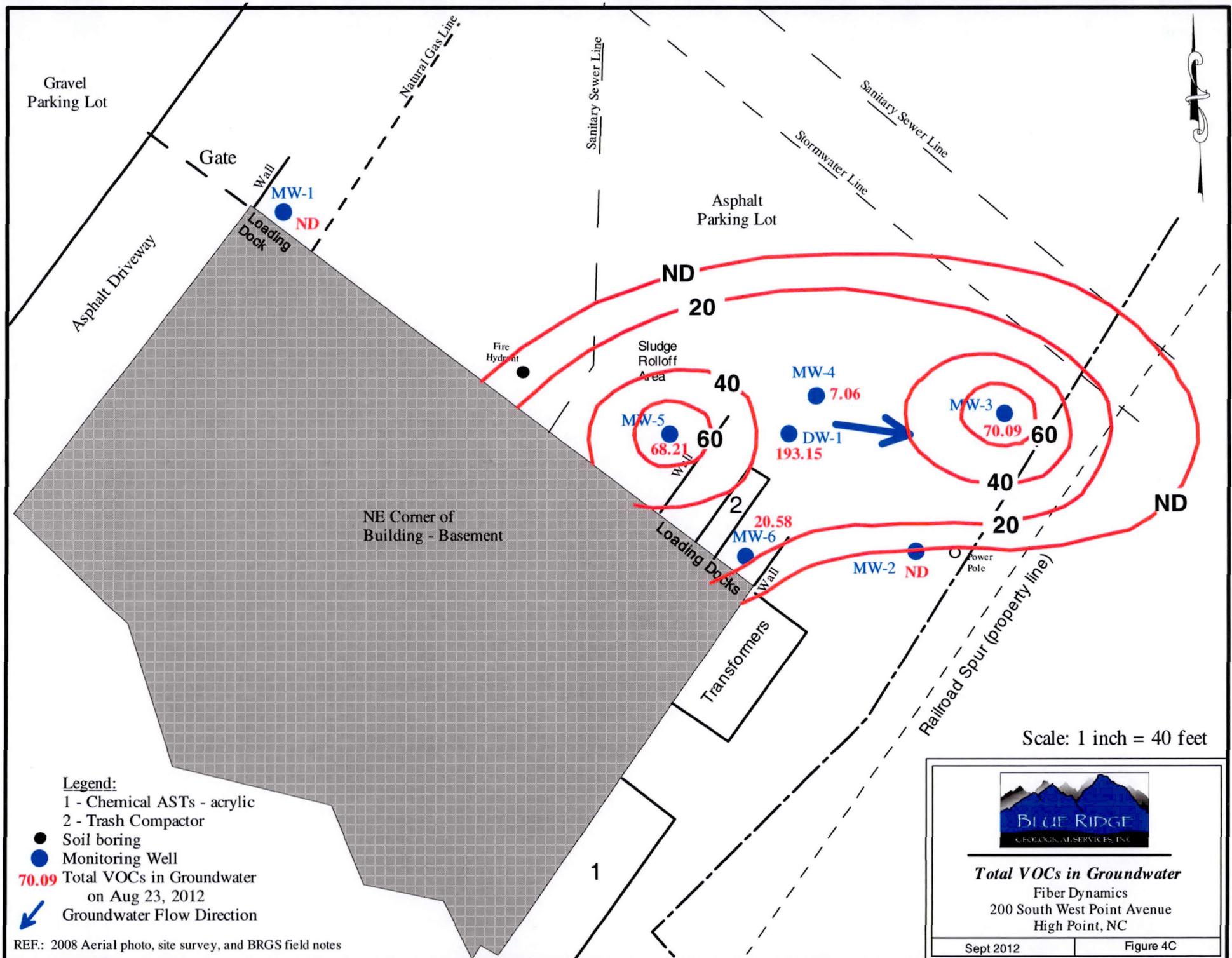




TCE in Groundwater
Fiber Dynamics
200 South West Point Avenue
High Point, NC

Sept 2012

Figure 4B



Total VOCs in Groundwater
Fiber Dynamics
200 South West Point Avenue
High Point, NC

Sept 2012

Figure 4C

**LABORATORY REPORT AND
CHAIN OF CUSTODY FORM**



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September 06, 2012

Mr. Jeff Gerlock
Blue Ridge Geological Services
306 Eden Terrace
Suite C
Archdale, NC 27263

RE: Project: Fiber 201276
Pace Project No.: 92129212

Dear Mr. Gerlock:

Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Charles Hardin

tripp.hardin@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Fiber 201276
Pace Project No.: 92129212

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0258
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03085
Louisiana Certification #: LA080009
Maine Certification #: 200729
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace

Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 027-0521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Charlotte Certification IDs

9800 Kinsey Ave. Site 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Fiber 201276
Pace Project No.: 92129212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129212001	MW-1	Water	08/23/12 17:15	08/24/12 14:32
92129212002	MW-3	Water	08/23/12 18:00	08/24/12 14:32
92129212003	MW-4	Water	08/23/12 18:15	08/24/12 14:32
92129212004	MW-5	Water	08/23/12 18:30	08/24/12 14:32
92129212005	MW-2	Water	08/23/12 17:45	08/24/12 14:32
92129212006	MW-6	Water	08/23/12 19:05	08/24/12 14:32
92129212007	DW-1	Water	08/23/12 19:30	08/24/12 14:32
92129212008	DUP	Water	08/23/12 00:00	08/24/12 14:32



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SAMPLE ANALYTE COUNT

Project: Fiber 201276
Pace Project No.: 92129212

Lab ID	Sample ID	Method	Analysts	Analyses Reported	Laboratory
92129212001	MW-1	RSK 175	SK4	3	PASI-M
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	63	PASI-C
		SM 2320B	SMW	1	PASI-A
		SM 3500-Fe D#4	SAE	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		SM 5310B	AES	1	PASI-A
92129212002	MW-3	RSK 175	SK4	3	PASI-M
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	63	PASI-C
		SM 2320B	SMW	1	PASI-A
		SM 3500-Fe D#4	SAE	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		SM 5310B	AES	1	PASI-A
92129212003	MW-4	RSK 175	SK4	3	PASI-M
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	63	PASI-C
		SM 2320B	SMW	1	PASI-A
		SM 3500-Fe D#4	SAE	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		SM 5310B	AES	1	PASI-A
92129212004	MW-5	RSK 175	SK4	3	PASI-M
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	63	PASI-C
		SM 2320B	SMW	1	PASI-A
		SM 3500-Fe D#4	SAE	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A

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ANALYTICAL RESULTS

Project: Fiber 201276
Pace Project No.: 92129212

Sample: MW-5 Lab ID: 92129212004 Collected: 08/23/12 18:30 Received: 08/24/12 14:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

5310B TOC Analytical Method: SM 5310B

Total Organic Carbon 7.0 mg/L 1.0 1.0 1 08/30/12 21:14 7440-44-0

Date: 09/06/2012 04:22 PM

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ANALYTICAL RESULTS

Project: Fiber 201276
Pace Project No.: 92129212

Sample: MW-2 Lab ID: 92129212005 Collected: 08/23/12 17:45 Received: 08/24/12 14:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

8260 MSV Low Level Analytical Method: EPA 8260

Acetone	ND ug/L	25.0	2.2	1					08/29/12 07:02 67-64-1
Benzene	ND ug/L	1.0	0.25	1					08/29/12 07:02 71-43-2
Bromobenzene	ND ug/L	1.0	0.30	1					08/29/12 07:02 108-86-1
Bromochloromethane	ND ug/L	1.0	0.17	1					08/29/12 07:02 74-97-5
Bromodichloromethane	ND ug/L	1.0	0.18	1					08/29/12 07:02 75-27-4
Bromoform	ND ug/L	1.0	0.26	1					08/29/12 07:02 75-25-2
Bromomethane	ND ug/L	2.0	0.29	1					08/29/12 07:02 74-83-9
2-Butanone (MEK)	ND ug/L	5.0	0.96	1					08/29/12 07:02 78-93-3
Carbon tetrachloride	ND ug/L	1.0	0.25	1					08/29/12 07:02 56-23-5
Chlorobenzene	ND ug/L	1.0	0.23	1					08/29/12 07:02 108-90-7
Chloroethane	ND ug/L	1.0	0.54	1					08/29/12 07:02 75-00-3
Chloroform	ND ug/L	1.0	0.14	1					08/29/12 07:02 67-66-3
Chloromethane	ND ug/L	1.0	0.11	1					08/29/12 07:02 74-87-3
2-Chlorotoluene	ND ug/L	1.0	0.35	1					08/29/12 07:02 95-49-8
4-Chlorotoluene	ND ug/L	1.0	0.31	1					08/29/12 07:02 106-43-4
1,2-Dibromo-3-chloropropane	ND ug/L	5.0	2.5	1					08/29/12 07:02 96-12-8
Dibromochloromethane	ND ug/L	1.0	0.21	1					08/29/12 07:02 124-48-1
1,2-Dibromoethane (EDB)	ND ug/L	1.0	0.27	1					08/29/12 07:02 106-93-4
Dibromomethane	ND ug/L	1.0	0.21	1					08/29/12 07:02 74-95-3
1,2-Dichlorobenzene	ND ug/L	1.0	0.30	1					08/29/12 07:02 95-50-1
1,3-Dichlorobenzene	ND ug/L	1.0	0.24	1					08/29/12 07:02 541-73-1
1,4-Dichlorobenzene	ND ug/L	1.0	0.33	1					08/29/12 07:02 106-46-7
Dichlorodifluoromethane	ND ug/L	1.0	0.21	1					08/29/12 07:02 75-71-8
1,1-Dichloroethane	ND ug/L	1.0	0.32	1					08/29/12 07:02 75-34-3
1,2-Dichloroethane	ND ug/L	1.0	0.12	1					08/29/12 07:02 107-06-2
1,1-Dichloroethene	ND ug/L	1.0	0.56	1					08/29/12 07:02 75-35-4
cis-1,2-Dichloroethene	ND ug/L	1.0	0.19	1					08/29/12 07:02 156-59-2
trans-1,2-Dichloroethene	ND ug/L	1.0	0.49	1					08/29/12 07:02 156-60-5
1,2-Dichloropropane	ND ug/L	1.0	0.27	1					08/29/12 07:02 78-87-5
1,3-Dichloropropane	ND ug/L	1.0	0.28	1					08/29/12 07:02 142-28-9
2,2-Dichloropropane	ND ug/L	1.0	0.13	1					08/29/12 07:02 594-20-7
1,1-Dichloropropene	ND ug/L	1.0	0.49	1					08/29/12 07:02 563-58-6
cis-1,3-Dichloropropene	ND ug/L	1.0	0.13	1					08/29/12 07:02 10061-01-5
trans-1,3-Dichloropropene	ND ug/L	1.0	0.26	1					08/29/12 07:02 10061-02-6
Disopropyl ether	ND ug/L	1.0	0.12	1					08/29/12 07:02 108-20-3
Ethylbenzene	ND ug/L	1.0	0.30	1					08/29/12 07:02 100-41-4
Hexachloro-1,3-butadiene	ND ug/L	1.0	0.71	1					08/29/12 07:02 87-68-3
2-Hexanone	ND ug/L	5.0	0.46	1					08/29/12 07:02 591-78-6
p-Isopropyltoluene	ND ug/L	1.0	0.31	1					08/29/12 07:02 99-87-6
Methylene Chloride	ND ug/L	2.0	0.97	1					08/29/12 07:02 75-09-2
4-Methyl-2-pentanone (MIBK)	ND ug/L	5.0	0.33	1					08/29/12 07:02 108-10-1
Methyl-tert-butyl ether	ND ug/L	1.0	0.21	1					08/29/12 07:02 1634-04-4
Naphthalene	ND ug/L	1.0	0.24	1					08/29/12 07:02 91-20-3
Styrene	ND ug/L	1.0	0.26	1					08/29/12 07:02 100-42-5
1,1,2-Tetrachloroethane	ND ug/L	1.0	0.33	1					08/29/12 07:02 630-20-6
1,1,2,2-Tetrachloroethane	ND ug/L	1.0	0.40	1					08/29/12 07:02 79-34-5

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ANALYTICAL RESULTS

Project: Fiber 201276
Pace Project No.: 92129212

Sample: DUP	Lab ID: 92129212008	Collected: 08/23/12 00:00	Received: 08/24/12 14:32	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL DF	Prepared	Analyzed	CAS No.	Qual

8260 MSV Low Level Analytical Method: EPA 8260

Tetrachloroethene	43.1	ug/L	1.0	0.46	1	08/29/12 07:49	127-18-4
Toluene	ND	ug/L	1.0	0.26	1	08/29/12 07:49	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1	08/29/12 07:49	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1	08/29/12 07:49	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1	08/29/12 07:49	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1	08/29/12 07:49	79-00-5
Trichloroethylene	3.0	ug/L	1.0	0.47	1	08/29/12 07:49	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1	08/29/12 07:49	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1	08/29/12 07:49	96-18-4
Vinyl acetate	ND	ug/L	2.0	0.35	1	08/29/12 07:49	108-05-4
Vinyl chloride	ND	ug/L	1.0	0.62	1	08/29/12 07:49	75-01-4
m,p-Xylene	ND	ug/L	2.0	0.66	1	08/29/12 07:49	179601-23-1
o-Xylene	ND	ug/L	1.0	0.23	1	08/29/12 07:49	95-47-6
<i>Surrogates</i>							
4-Bromofluorobenzene (S)	100 %		70-130	1		08/29/12 07:49	460-00-4
Dibromoefluoromethane (S)	105 %		70-130	1		08/29/12 07:49	1868-53-7
1,2-Dichloroethane-d4 (S)	113 %		70-130	1		08/29/12 07:49	17060-07-0
Toluene-d8 (S)	102 %		70-130	1		08/29/12 07:49	2037-26-5



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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch:	AIR/15619	Analysis Method:	RSK 175
QC Batch Method:	RSK 175	Analysis Description:	RSK 175 AIR HEADSPACE
Associated Lab Samples:	92129212001, 92129212002, 92129212003, 92129212004		

METHOD BLANK: 1276689 Matrix: Water

Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	6.2	08/29/12 08:46	
Ethene	ug/L	ND	6.2	08/29/12 08:46	
Methane	ug/L	ND	6.6	08/29/12 08:46	

LABORATORY CONTROL SAMPLE & LCSD: 1276690 1276691

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	97.8	104	88	91	70-130	6	30
Ethene	ug/L	106	91.7	96.9	86	91	70-130	6	30
Methane	ug/L	60.7	53.6	56.2	88	93	70-130	5	30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1277922 1277923

Parameter	Units	10203519001 Result	MS Spike Conc.	MS Result	MS % Rec	MS % Rec	MS % Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	1.4J	94.8	114	97.8	96.9	102	84	30-150	1 30
Ethene	ug/L	<0.79	88.4	106	88.2	90.1	99	85	30-150	2 30
Methane	ug/L	11900	50.5	60.7	16100	10900	8270	-1570	30-150	38 30 3g, E, MO, R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1277924 1277925

Parameter	Units	10203519008 Result	MS Spike Conc.	MS Result	MS % Rec	MS % Rec	MS % Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	1.0J	103	108	92.6	91.7	89	84	30-150	1 30
Ethene	ug/L	<0.79	96.4	101	85.2	84.9	88	84	30-150	.4 30
Methane	ug/L	6820	55.1	57.8	5870	6720	-1710	-170	30-150	13 30 1g,2g, MO

SAMPLE DUPLICATE: 1277921

Parameter	Units	92129212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND			30
Ethene	ug/L	ND	ND			30
Methane	ug/L	7.0	7.4	6		30

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: MPPR/11360 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

METHOD BLANK: 822742 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese	ug/L	ND	5.0	08/30/12 03:11	

LABORATORY CONTROL SAMPLE: 822743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	500	484	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 822744 822745

Parameter	Units	92129241001 Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD Qual
Manganese	ug/L	2470	500	500	2950	2900	97	86	75-125	2	20

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: MSV/2013 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004, 92129212005, 92129212006, 92129212007, 92129212008

METHOD BLANK: 823137 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004, 92129212005, 92129212006, 92129212007, 92129212008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/29/12 02:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/29/12 02:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/29/12 02:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/29/12 02:50	
1,1-Dichloroethane	ug/L	ND	1.0	08/29/12 02:50	
1,1-Dichloroethene	ug/L	ND	1.0	08/29/12 02:50	
1,1-Dichloropropene	ug/L	ND	1.0	08/29/12 02:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/29/12 02:50	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/29/12 02:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/29/12 02:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	08/29/12 02:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/29/12 02:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/29/12 02:50	
1,2-Dichloroethane	ug/L	ND	1.0	08/29/12 02:50	
1,2-Dichloropropane	ug/L	ND	1.0	08/29/12 02:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/29/12 02:50	
1,3-Dichloropropene	ug/L	ND	1.0	08/29/12 02:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/29/12 02:50	
2,2-Dichloropropane	ug/L	ND	1.0	08/29/12 02:50	
2-Butanone (MEK)	ug/L	ND	5.0	08/29/12 02:50	
2-Chlorotoluene	ug/L	ND	1.0	08/29/12 02:50	
2-Hexanone	ug/L	ND	5.0	08/29/12 02:50	
4-Chlorotoluene	ug/L	ND	1.0	08/29/12 02:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/29/12 02:50	
Acetone	ug/L	ND	25.0	08/29/12 02:50	
Benzene	ug/L	ND	1.0	08/29/12 02:50	
Bromobenzene	ug/L	ND	1.0	08/29/12 02:50	
Bromochloromethane	ug/L	ND	1.0	08/29/12 02:50	
Bromodichloromethane	ug/L	ND	1.0	08/29/12 02:50	
Bromoform	ug/L	ND	1.0	08/29/12 02:50	
Bromomethane	ug/L	ND	2.0	08/29/12 02:50	
Carbon tetrachloride	ug/L	ND	1.0	08/29/12 02:50	
Chlorobenzene	ug/L	ND	1.0	08/29/12 02:50	
Chloroethane	ug/L	ND	1.0	08/29/12 02:50	
Chloroform	ug/L	ND	1.0	08/29/12 02:50	
Chloromethane	ug/L	ND	1.0	08/29/12 02:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/29/12 02:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/29/12 02:50	
Dibromochloromethane	ug/L	ND	1.0	08/29/12 02:50	
Dibromomethane	ug/L	ND	1.0	08/29/12 02:50	
Dichlorodifluoromethane	ug/L	ND	1.0	08/29/12 02:50	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

METHOD BLANK: 823137 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004, 92129212005, 92129212006, 92129212007,
92129212008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	08/29/12 02:50	
Ethylbenzene	ug/L	ND	1.0	08/29/12 02:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/29/12 02:50	
m&p-Xylene	ug/L	ND	2.0	08/29/12 02:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/29/12 02:50	
Methylene Chloride	ug/L	ND	2.0	08/29/12 02:50	
Naphthalene	ug/L	ND	1.0	08/29/12 02:50	
o-Xylene	ug/L	ND	1.0	08/29/12 02:50	
p-Isopropyltoluene	ug/L	ND	1.0	08/29/12 02:50	
Styrene	ug/L	ND	1.0	08/29/12 02:50	
Tetrachloroethene	ug/L	ND	1.0	08/29/12 02:50	
Toluene	ug/L	ND	1.0	08/29/12 02:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/29/12 02:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/29/12 02:50	
Trichloroethene	ug/L	ND	1.0	08/29/12 02:50	
Trichlorofluoromethane	ug/L	ND	1.0	08/29/12 02:50	
Vinyl acetate	ug/L	ND	2.0	08/29/12 02:50	
Vinyl chloride	ug/L	ND	1.0	08/29/12 02:50	
1,2-Dichloroethane-d4 (S)	%	105	70-130	08/29/12 02:50	
4-Bromofluorobenzene (S)	%	105	70-130	08/29/12 02:50	
Dibromofluoromethane (S)	%	107	70-130	08/29/12 02:50	
Toluene-d8 (S)	%	102	70-130	08/29/12 02:50	

LABORATORY CONTROL SAMPLE: 823138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.6	91	70-130	
1,1,1-Trichloroethane	ug/L	50	45.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.4	87	70-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	45.0	90	70-130	
1,1-Dichloroethene	ug/L	50	43.7	87	70-132	
1,1-Dichloropropene	ug/L	50	45.7	91	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.1	94	70-135	
1,2,3-Trichloropropane	ug/L	50	45.2	90	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.1	90	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.2	96	70-130	
1,2-Dichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dichloroethane	ug/L	50	42.7	85	70-130	
1,2-Dichloropropane	ug/L	50	46.9	94	70-130	
1,3-Dichlorobenzene	ug/L	50	45.2	90	70-130	
1,3-Dichloropropane	ug/L	50	46.3	93	70-130	
1,4-Dichlorobenzene	ug/L	50	43.2	88	70-130	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

Parameter	Units	92128698024		MS		MSD		MS		MSD		% Rec		RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MSD Result	% Rec	MSD Result	% Rec	% Rec	Limits	RPD	Max RPD	Qual			
1,1-Dichloroethene	ug/L	ND	50	50	60.2	65.0	120	130	70-166	8	30					
Benzene	ug/L	ND	50	50	46.9	50.0	94	100	70-148	7	30					
Chlorobenzene	ug/L	ND	50	50	50.1	54.8	100	110	70-146	9	30					
Toluene	ug/L	ND	50	50	51.1	56.6	102	113	70-155	10	30					
Trichloromethane	ug/L	ND	50	50	52.3	58.9	105	118	69-151	12	30					
1,2-Dichloroethane-d4 (S)	%						109	108	70-130							
4-Bromofluorobenzene (S)	%						95	98	70-130							
Dibromoformmethane (S)	%						109	102	70-130							
Toluene-d8 (S)	%						98	99	70-130							



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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

OC Batch:	WET/22288	Analysis Method:	SM 2320B
OC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004			
METHOD BLANK: 827528 Matrix: Water			
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004			
Blank Reporting			
Parameter	Units	Result	Limit
Alkalinity, Total as CaCO3	mg/L	ND	5.0 09/05/12 12:59
LABORATORY CONTROL SAMPLE: 827529			
Parameter	Units	Spike Conc.	LCS Result
Alkalinity, Total as CaCO3	mg/L	50	45.9
Parameter	Units	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	mg/L	92	90-110
MATRIX SPIKE SAMPLE: 827533			
Parameter	Units	92129212002 Result	Spike Conc.
Alkalinity, Total as CaCO3	mg/L	133	50
Parameter	Units	MS Result	MS % Rec
Alkalinity, Total as CaCO3	mg/L	191	117
MATRIX SPIKE SAMPLE: 827814			
Parameter	Units	92129212004 Result	Spike Conc.
Alkalinity, Total as CaCO3	mg/L	168	50
Parameter	Units	MS Result	MS % Rec
Alkalinity, Total as CaCO3	mg/L	204	71
SAMPLE DUPLICATE: 827532			
Parameter	Units	92129212001 Result	Dup Result
Alkalinity, Total as CaCO3	mg/L	32.2	31.0
Parameter	Units	RPD	Max RPD
Alkalinity, Total as CaCO3	mg/L	4	20
SAMPLE DUPLICATE: 827813			
Parameter	Units	92129212003 Result	Dup Result
Alkalinity, Total as CaCO3	mg/L	203	188
Parameter	Units	RPD	Max RPD
Alkalinity, Total as CaCO3	mg/L	8	20
Parameter	Units	Qualifiers	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WET/22215 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

METHOD BLANK: 823603 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	08/29/12 11:43	N2

LABORATORY CONTROL SAMPLE: 823604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	101	90-110	N2

SAMPLE DUPLICATE: 823605

Parameter	Units	92128698001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	H6,N2



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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WET/22180 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

METHOD BLANK: 822003 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	08/25/12 15:05	

LABORATORY CONTROL SAMPLE: 822004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	102	90-110	

MATRIX SPIKE SAMPLE: 822005

Parameter	Units	92129087008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	0.50	100	75-125	

SAMPLE DUPLICATE: 822006

Parameter	Units	92129087008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND	ND	20	



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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13074 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 92129212001, 92129212002, 92129212003

METHOD BLANK: 824248 Matrix: Water

Associated Lab Samples: 92129212001, 92129212002, 92129212003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	08/30/12 04:10	

LABORATORY CONTROL SAMPLE: 824249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.1	95	90-110	

MATRIX SPIKE SAMPLE: 824250

Parameter	Units	92128710009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	21.3	99	90-110	

SAMPLE DUPLICATE: 824251

Parameter	Units	92128710009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND	20	20	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13089 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 92129212004

METHOD BLANK: 825344 Matrix: Water

Associated Lab Samples: 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	09/05/12 12:55	

LABORATORY CONTROL SAMPLE: 825345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.3	92	90-110	

MATRIX SPIKE SAMPLE: 825346

Parameter	Units	92129212004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	60.8	20	113	259	90-110 M1	

MATRIX SPIKE SAMPLE: 825348

Parameter	Units	92129359002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	84.9	20	105	101	90-110	

SAMPLE DUPLICATE: 825347

Parameter	Units	92129212004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	60.8	60.7	0	20	

SAMPLE DUPLICATE: 825349

Parameter	Units	92129359002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	84.9	86.2	2	20	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13038 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

METHOD BLANK: 821799 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003, 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	08/25/12 00:27	

LABORATORY CONTROL SAMPLE: 821800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE SAMPLE: 821801

Parameter	Units	92129212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.9	2.5	4.4	99	90-110	

SAMPLE DUPLICATE: 821802

Parameter	Units	92129212001 Result	Dup Result	Max RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.9	1.9	0	20	

Date: 09/06/2012 04:22 PM

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13111 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride

Associated Lab Samples: 92129212001

METHOD BLANK: 827433 Matrix: Water
Associated Lab Samples: 92129212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/04/12 19:29	

LABORATORY CONTROL SAMPLE: 827434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.1	100	90-110	

MATRIX SPIKE SAMPLE: 827435

Parameter	Units	92128710004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	ND	20	20.9	105	75-125	

SAMPLE DUPLICATE: 827436

Parameter	Units	92128710004 Result	Dup Result	Max RPD	Max RPD	Qualifiers
Chloride	mg/L	ND	ND	ND	20	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13112 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92129212002, 92129212003, 92129212004

METHOD BLANK: 827447 Matrix: Water
Associated Lab Samples: 92129212002, 92129212003, 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/04/12 20:21	

LABORATORY CONTROL SAMPLE: 827448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	

MATRIX SPIKE SAMPLE: 827449

Parameter	Units	92129212002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	34.7	20	55.7	105	75-125	

SAMPLE DUPLICATE: 827450

Parameter	Units	92129212002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	34.7	34.0	2	20	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13058 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92129212001, 92129212002, 92129212003

METHOD BLANK: 823272 Matrix: Water
Associated Lab Samples: 92129212001, 92129212002, 92129212003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	08/28/12 21:40	

LABORATORY CONTROL SAMPLE: 823273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.6	94	90-110	

MATRIX SPIKE SAMPLE: 823277

Parameter	Units	92128698025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	86.0	25	251	659	75-125 M6	

MATRIX SPIKE SAMPLE: 823291

Parameter	Units	92128698008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	41.1	25	58.6	70	75-125 M1	

SAMPLE DUPLICATE: 823276

Parameter	Units	92128698024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	28.9	28.6	1	20	

SAMPLE DUPLICATE: 823292

Parameter	Units	92128698009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	37.9	37.7	0	20	

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QUALITY CONTROL DATA

Project: Fiber 201276
Pace Project No.: 92129212

QC Batch: WETA/13082 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC

Associated Lab Samples: 92129212004

METHOD BLANK: 824878 Matrix: Water

Associated Lab Samples: 92129212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	08/30/12 19:50	

LABORATORY CONTROL SAMPLE: 824879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.7	99	90-110	

MATRIX SPIKE SAMPLE: 824880

Parameter	Units	92127489002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	50.4	25	73.6	93	75-125	

SAMPLE DUPLICATE: 824881

Parameter	Units	92127489003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	106	109	2	20	

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QUALIFIERS

Project: Fiber 201276
Pace Project No.: 92129212

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1g Sample is 106.5 times spike amount.

2g Sample is 116.36 times spike amount.

3g Sample is 180.2 times spike amount.

4g Sample is 317.3 times spike amount.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

LO Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fiber 201276
Pace Project No.: 92129212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129212001	MW-1	RSK 175	AIR/15619		
92129212002	MW-3	RSK 175	AIR/15619		
92129212003	MW-4	RSK 175	AIR/15619		
92129212004	MW-5	RSK 175	AIR/15619		
92129212001	MW-1	EPA 3010	MPRP/11360	EPA 6010	ICP/10418
92129212002	MW-3	EPA 3010	MPRP/11360	EPA 6010	ICP/10418
92129212003	MW-4	EPA 3010	MPRP/11360	EPA 6010	ICP/10418
92129212004	MW-5	EPA 3010	MPRP/11360	EPA 6010	ICP/10418
92129212001	MW-1	EPA 8260	MSV/20213		
92129212002	MW-3	EPA 8260	MSV/20213		
92129212003	MW-4	EPA 8260	MSV/20213		
92129212004	MW-5	EPA 8260	MSV/20213		
92129212005	MW-2	EPA 8260	MSV/20213		
92129212006	MW-6	EPA 8260	MSV/20213		
92129212007	DW-1	EPA 8260	MSV/20213		
92129212008	DUP	EPA 8260	MSV/20213		
92129212001	MW-1	SM 2320B	WET/22288		
92129212002	MW-3	SM 2320B	WET/22288		
92129212003	MW-4	SM 2320B	WET/22288		
92129212004	MW-5	SM 2320B	WET/22288		
92129212001	MW-1	SM 3500-Fe D#4	WET/22215		
92129212002	MW-3	SM 3500-Fe D#4	WET/22215		
92129212003	MW-4	SM 3500-Fe D#4	WET/22215		
92129212004	MW-5	SM 3500-Fe D#4	WET/22215		
92129212001	MW-1	SM 4500-S2D	WET/22180		
92129212002	MW-3	SM 4500-S2D	WET/22180		
92129212003	MW-4	SM 4500-S2D	WET/22180		
92129212004	MW-5	SM 4500-S2D	WET/22180		
92129212001	MW-1	EPA 300.0	WETA/13074		
92129212002	MW-3	EPA 300.0	WETA/13074		
92129212003	MW-4	EPA 300.0	WETA/13074		
92129212004	MW-5	EPA 300.0	WETA/13089		
92129212001	MW-1	EPA 353.2	WETA/13038		
92129212002	MW-3	EPA 353.2	WETA/13038		
92129212003	MW-4	EPA 353.2	WETA/13038		
92129212004	MW-5	EPA 353.2	WETA/13038		
92129212001	MW-1	SM 4500-CI-E	WETA/13111		
92129212002	MW-3	SM 4500-CI-E	WETA/13112		
92129212003	MW-4	SM 4500-CI-E	WETA/13112		
92129212004	MW-5	SM 4500-CI-E	WETA/13112		
92129212001	MW-1	SM 5310B	WETA/13058		
92129212002	MW-3	SM 5310B	WETA/13058		
92129212003	MW-4	SM 5310B	WETA/13058		

Date: 09/06/2012 04:22 PM

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fiber 201276
Pace Project No.: 92129212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129212004	MW-5	SM 5310B		WETA/13082	

Data File: \\Wt\chem\92msv6.i\082912.b\08291217.D
Report Date: 04-Sep-2012 11:00

Page 1

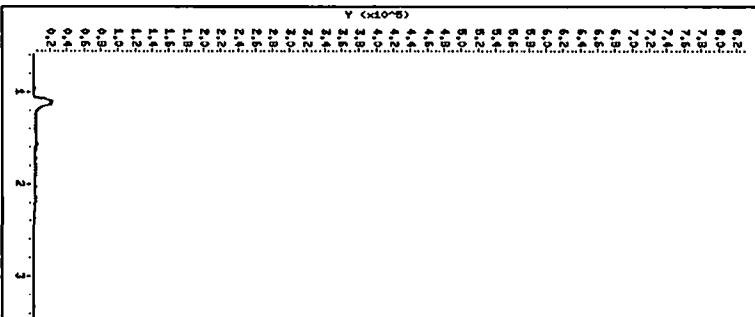
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TENTATIVELY IDENTIFIED COMPOUNDS

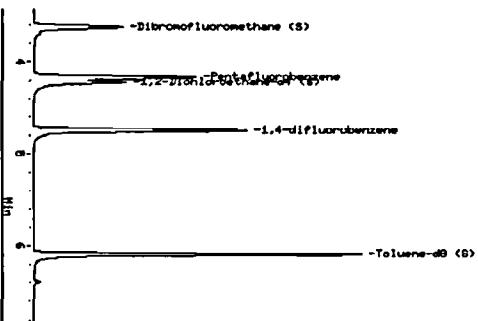
Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212001 Client Smp ID: MW-1
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 05:59

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

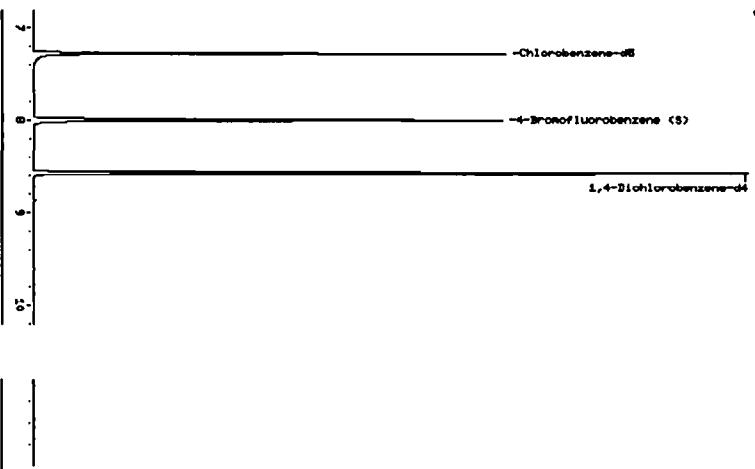
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Data File \\Wt\chem\92msv6.i\082912.b\08291217.D
Date : 29-AUG-2012 05:59
Client ID: MW-1
Sample Date: 082912,05:59,12,2012
Purge Volume: 6.0
Column phases: RTX-MS



Instrument: 7000
Operator: KJM
Column Elution:



Page 1

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Report Date: 04-Sep-2012 11:00

Page 1

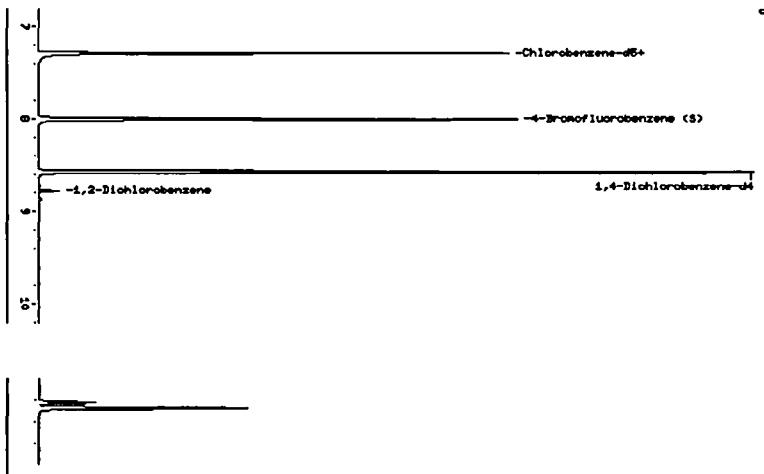
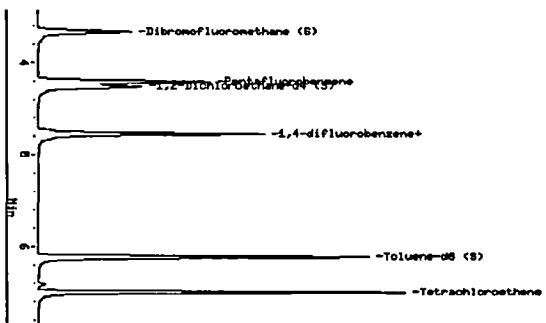
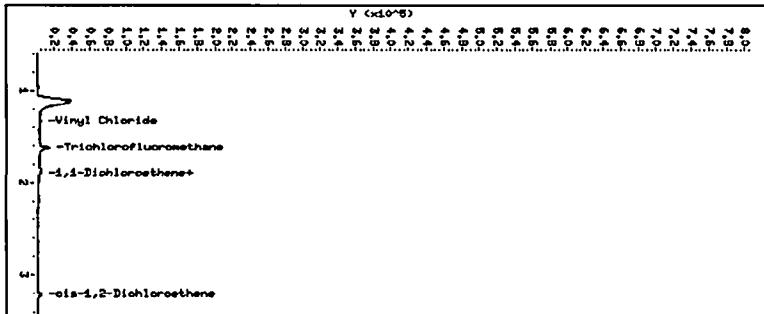
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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212002 Client Smp ID: MW-3
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 06:15

CONCENTRATION UNITS:
Number TICs found: 1 (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 101-84-8	Diphenyl ether	10.479	16.9	NJ



Date : 27-AUG-2012 06:15
Client ID: MW-3
Sample Info: 082912-BRSMALL.JNS1
Purge Volume: 6.0
Column phase: RTX-1MS

Instrument: GC
Operator: KM
Column diameter: 1 mm
Column length: 30 m
Carrier gas: Helium

Data File: \\Wt\chem\92msv6.i\082912.b\08291218.D

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Report Date: 04-Sep-2012 11:00

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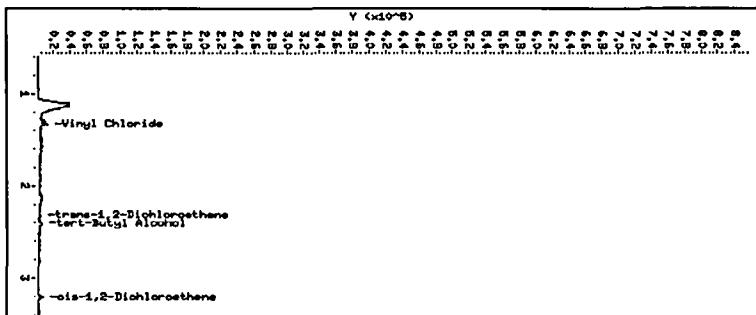
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TENTATIVELY IDENTIFIED COMPOUNDS

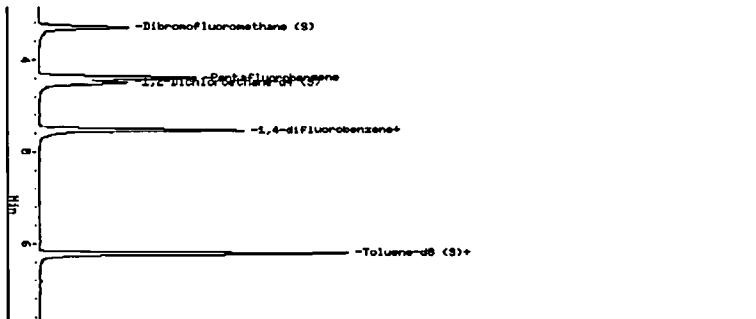
Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212003 Client Smp ID: MW-4
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 06:31

CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/KG) ug/L

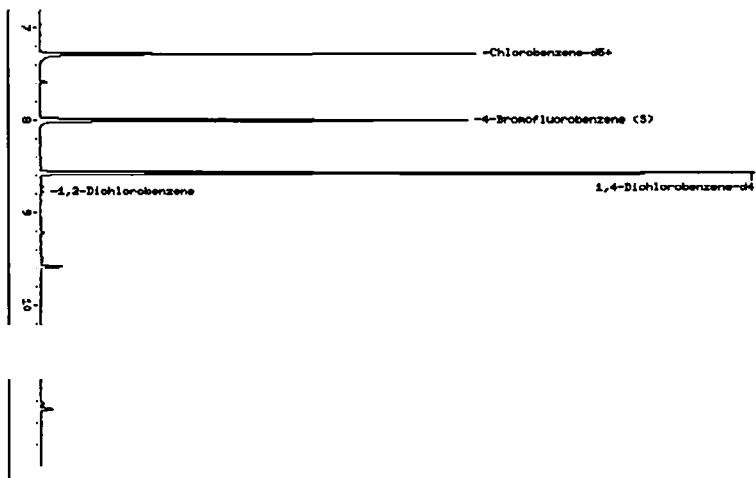
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



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Date: 1 29-AUG-2012 06:31
Client ID: MW-4
Sample Info: 082912.B26.MLL.AM1.S
Purge Volume: 0.0
Column phases: PTX-MS



Instrument: 92m
Operator: KJM
Column diameter: 1 mm
[\\Wt\chem\92msv6.i\082912.b\08291219.D]



Instrument: 92m
Operator: KJM
Column diameter: 1 mm
[\\Wt\chem\92msv6.i\082912.b\08291219.D]
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Data File: \\Wt\chem\92msv6.i\082912.b\08291220.D
Report Date: 04-Sep-2012 11:00

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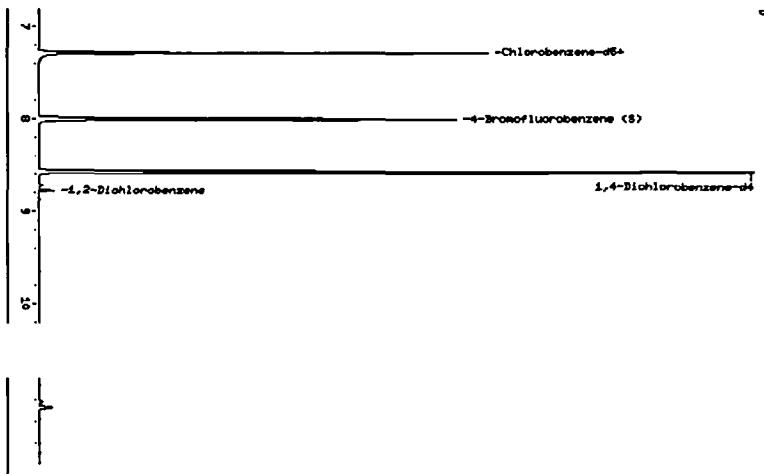
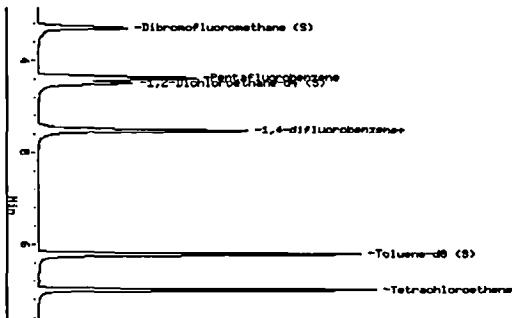
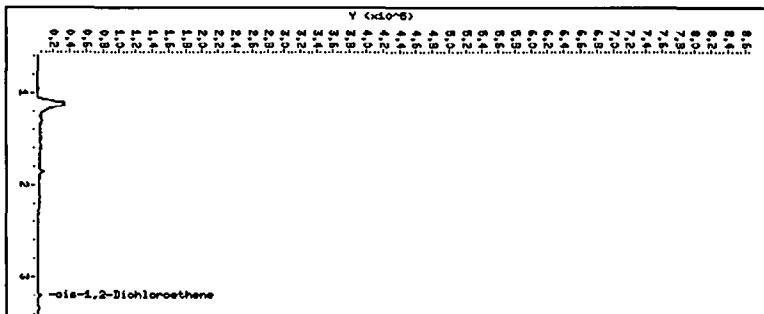
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212004 Client Smp ID: MW-5
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 06:46

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Data File \\Wt\chem\92msv6.i\082912.b\08291220.D
Date : 29-AUG-2012 06:46
Client ID: MW-5
Sample Info: 082912.B921292120.D
Purge Volume: 5.0
Column phases: RTD-MS

Instrument: GC

Operator: KJM
Column diameter:

1.0mm

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Data File: \\Wt\chem\92msv6.i\082912.b\08291221.D
Report Date: 04-Sep-2012 11:00

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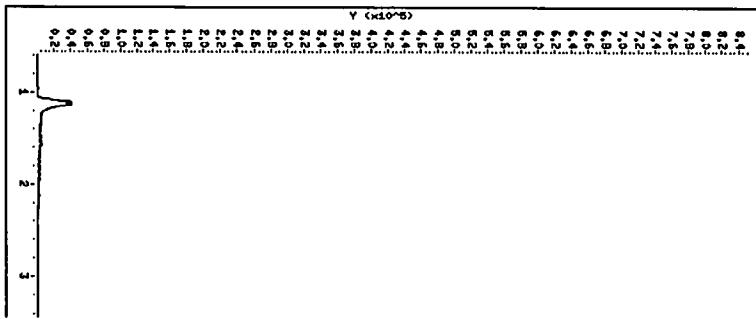
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TENTATIVELY IDENTIFIED COMPOUNDS

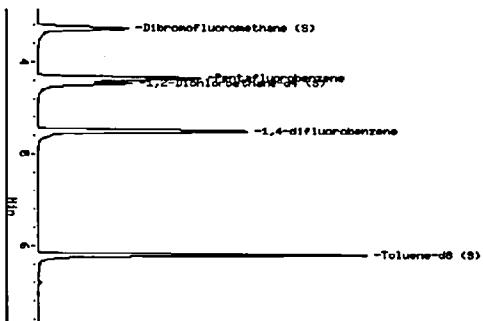
Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212005 Client Smp ID: MW-2
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 07:02

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

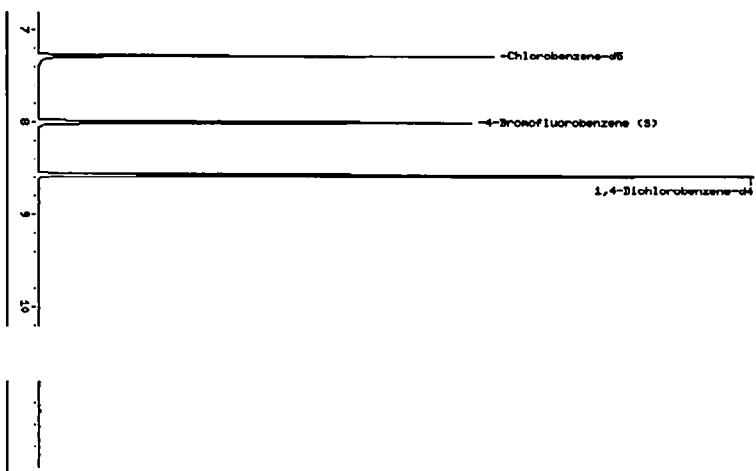
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Data File: \\Wt\chem\92msv6.i\082912.b\08291221.D
Date: 04-Sep-2012 11:00
Client ID: MW-2
Sample Info: 082912.BRNALKA.M1
Purge Volume: 0.0
Column phase: RT-HNS



Instrument: Pace
Operator: KJM
Column diameter: 1 mm
[\\Wt\chem\92msv6.i\082912.b\08291221.D]



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Data File: \\Wt\chem\92msv6.i\082912.b\08291222.D
Report Date: 04-Sep-2012 11:00

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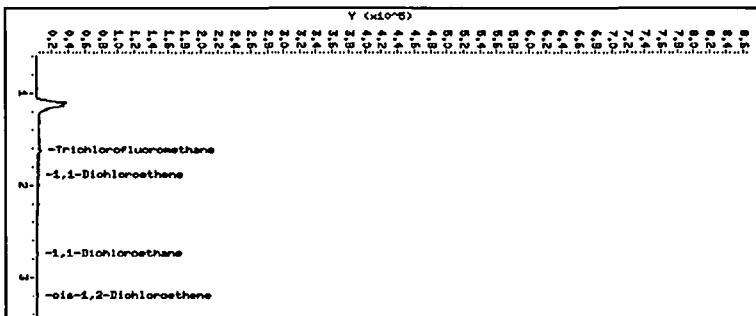
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TENTATIVELY IDENTIFIED COMPOUNDS

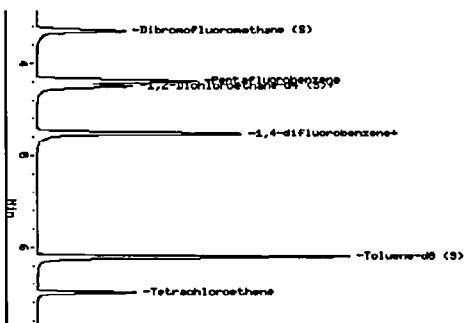
Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212006 Client Smp ID: MW-6
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 07:18

CONCENTRATION UNITS:
Number TICs found: 1 (ug/L or ug/KG) ug/L

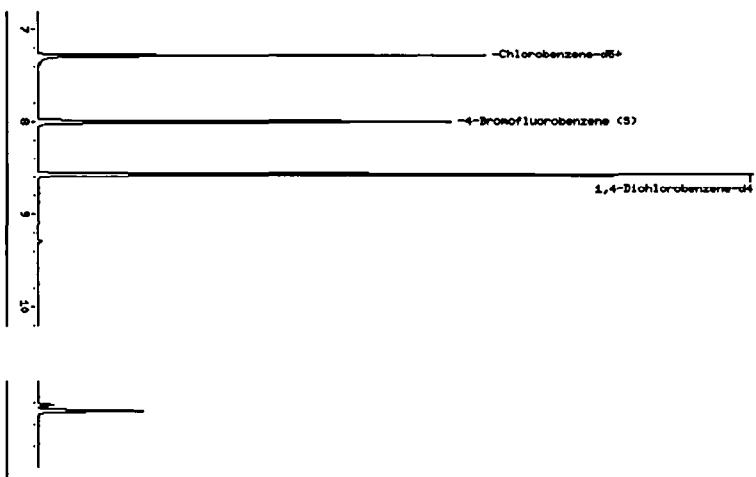
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 101-84-8	Diphenyl ether	10.479	8.68	NJ



Data File: \\Wt\chem\92msv6.i\082912.b\08291222.D
Date: 1 29-AUG-2012 07:18
Client ID: MW-6
Sample Input: 082912.B08291222.D
Purge Volume: 6.0
Column phase: RTX-1MS



Instrument: GC
Operator: KJM
Column diameter: 1 mm
\\Wt\chem\92msv6.i\082912.b\08291222.D



Page 1

Data File: \\Wt\chem\92msv6.i\082912.b\08291223.D
Report Date: 04-Sep-2012 11:00

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Pace Analytical Services, Inc.

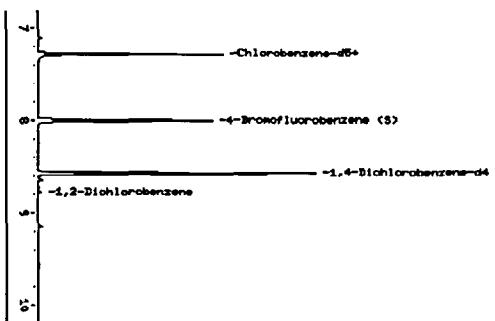
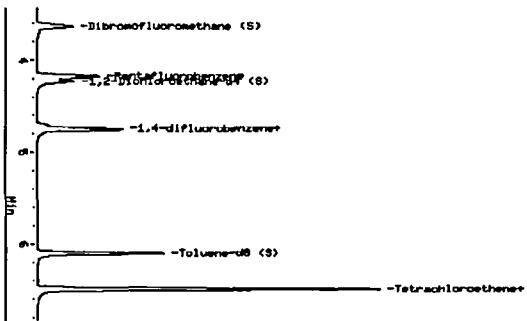
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212007 Client Smp ID: DW-1
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 07:34

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 92-52-4	Biphenyl	10.430	56.8	NJ
2. 101-84-8	Diphenyl ether	10.479	156	NJ



Data File \\Wt\chem\92msv6.i\082912.b\08291223.D
Date 1 29-AUG-2012 07:34
Client ID: DW-1
Sample Inject 082912.B08291223.D
Purge Volume 6.0
Column Phase PTX-HSG

22.0

Instrument: 9201
Operator: KJM
Column diameter:

1.0mm

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2

Data File: \\Wt\chem\92msv6.i\082912.b\08291224.D
Report Date: 04-Sep-2012 11:00

Page 1

Pace Analytical Services, Inc.

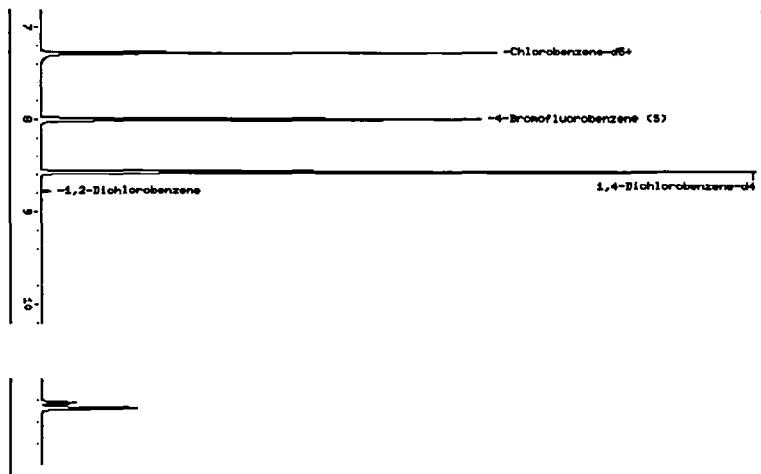
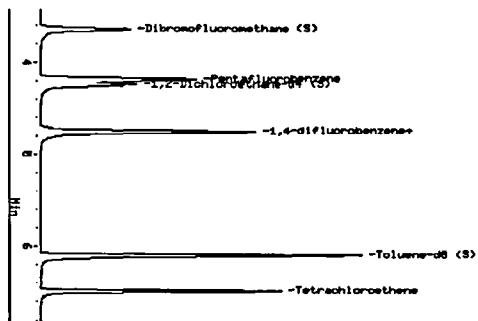
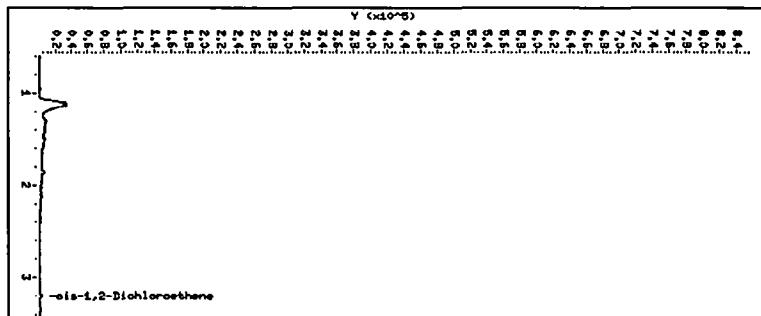
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Blue Ridge Geologica24-AUG-2012 00:00 Client SDG: 9212921
Lab Smp Id: 92129212008 Client Smp ID: DUP
Operator : KJM Sample Date: 23-AUG-2012
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:24-AUG-2012 00:00
Analysis Type: VOA Level: LOW
Inj Date: 29-AUG-2012 07:49

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 101-84-8	Diphenyl ether	10.479	8.50	NJ



Data File \\Wt\chem\92msv6.i\082912.b\08291224.D
Date : 29-AUG-2012 07:49
Client ID: DUP
Sample Injct: 082912.BGSALL.XN1
Purge Volume: 0.0
Column phase: PTC-MS

Instrument: 9204

Operator: KJM
Column diameter:

1. 0.18

Page

1

												Page: 1 of 1			
												1651876			
Section A Required Client Information:				Section B Required Project Information:				Section C Invoice Information:							
Company: <u>Blue Ridge Geological Services</u> Address: <u>306 Eden Tower, Suite A-1</u> Email To: <u>jeff.gerlock@gmail.com</u> Phone: <u>336-431-5454</u> Requested Due Date/TAT: <u>Std.</u>				Report To: <u>Jeff Gerlock</u> Copy To:				Attention: <u>Jeff Gerlock</u> Company Name: <u>BRGS</u> Address: Face Cycle: Reference: Face Project Manager: <u>K.Dillon/E.Waters</u> Face Profile #:							
								REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <u>IHSB</u>							
								Site Location: <u>NC</u> State: <u>NC</u>							
												Requested Analysis Filtered (Y/N)			
ITEM #	Section D Required Client Information		Matrix Codes MATRIX / CODE	MATRIX CODE (as valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Residual Chlorine (Y/N)		
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE					COMPOSITE START	COMPOSITE END/GRAB								
DATE	TIME	DATE	TIME												
1. MW-1	WT G	8/23/12	1715	15	8	1	5	1	H ₂ SO ₄	X	8260 VOCs + 10 TCs	N	92129212		
2. MW-2			1745	3			3		HNO ₃	TDC	Methane, Ethane		Pace Project No./Lab I.D.		
3. MW-3			1800	15	8	1	5	1	NaOH + Zn Acetate		Atmospheric		001		
4. MW-4			1815	15	8	1	5	1			Chlorides		002		
5. MW-5			1830	15	8	1	5	1			Ferric Iron		003		
6. MW-6			1905	3			3				Manganese, Total		004		
7. MW-7			1930	3			3				Sulfide		005		
8. Dvp	V	V	-	3			3				Nitrate		006		
9.															
10.															
11.															
12.															
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				ACCEPTED BY / AFFILIATION				SAMPLE CONDITIONS			
<u>IHSB REC Project</u>				<u>Jeff Gerlock, BRGS</u>				<u>Jeff Gerlock</u>				Temp In °C			
<u>Jeff Gerlock project</u>				<u>8/24/12 14:32</u>				<u>RP Pace</u>				Received on Ice (Y/N)			
												Custody Sealed (Y/N)			
												Samples Inact (Y/N)			
ORIGINAL				SAMPLER NAME AND SIGNATURE											
				PRINT Name of SAMPLER: <u>Jeff Gerlock</u>											
				SIGNATURE of SAMPLER: <u>Jeff Gerlock</u>								DATE Signed (MM/DD/YY):	<u>8/23/12</u>		